

Homework 9/2

Find the absolute value of the integer

1. -1 2. -14 3. 0 4. 6

Complete the statement using $<$, $>$, or $=$

5. 6 $\underline{\hspace{1cm}}$ $|-2|$ 6. -7 $\underline{\hspace{1cm}}$ $|-8|$ 7. $|-9|$ $\underline{\hspace{1cm}}$ 5 8. $|-2|$ $\underline{\hspace{1cm}}$ 2

Order from least to greatest

9. 4 , $|7|$, -1 , $|-3|$, -4 10. $|2|$, -3 , $|-5|$, -1 , 6
11. $|-8|$, 0 , -9 , $|-7|$, -2

12. You download 12 new songs to your MP3 player. Then you delete 5 old songs. Write each amount as an integer.

13. The mantle layer of Earth begins about 70km underneath the surface. The layer called the outer core begins about 2970km underneath the surface.

- Write an integer for the position of each layer relative to the surface.
- Which integer in part (a) is greater?
- Which integer in part (a) has the greater absolute value?

14. Use chips (+, -) to illustrate a zero pair.

15. Illustrate a different zero pair than problem #14.

16. In words, describe what an integer is.

17. How do rational numbers and irrational numbers differ?